

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims:

LISTING OF CLAIMS

1. – 37. (Cancelled)

38. (Currently Amended) A medical navigation system for controlling the distal end of an elongate medical device in the body of the patient ~~[[;]]~~ comprising:

an elongate flexible medical device;

a memory device provided with the flexible medical device that includes information on the physical and geometric properties including one or more cross-sectional areas of the device and an elastic property of the elongate medical device that are relevant to navigational control of the device;

a control system for controlling the position and/or orientation of the distal end of the elongate medical device, where the one or more cross-sectional areas of the device, and the elastic property of the device are used in navigational control algorithms for guiding the device;

an interface for accepting inputs from the user to cause the control system to selectively change the position and/or orientation of the elongate medical device; the interface sending actuation instructions to the control system dependent in part upon the medical device's physical and geometric property information, including the one or more cross-sectional areas of the device, and the elastic property of the device obtained from the memory device, wherein the physical and geometric properties of the device are used in navigational control algorithms for guiding the device.

39. – 51. (Cancelled)

52. (Currently Amended) ~~The medical navigational control system according to claim 38~~ A medical navigation system for controlling the distal end of an elongate medical device in the body of the patient comprising:

an elongate flexible medical device including at least one magnet;

a memory device provided with the flexible medical device that includes information on the physical and geometric properties of the elongate medical device that are relevant to navigational control of the device;

a control system for controlling the position and/or orientation of the distal end of the elongate medical device; wherein the control system is a magnetic navigation system for controlling an elongate medical device that further includes at least one magnet, and said information includes physical properties of the elongate medical device including at least a magnet dimension or a magnet type; and

an interface for accepting inputs from the user to cause the control system to selectively change the position and/or orientation of the elongate medical device; the interface sending actuation instructions to the control system dependent in part upon the medical device's physical and geometric property information including the magnet dimension or magnet type obtained from the memory device, wherein the physical and geometric properties of the device are used in navigational control algorithms for guiding the device.

53. (Cancelled)